

COC# 149

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

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(541) 383-9310 FAX 382-7588

(503) 906-9200 FA

924-9290 FAX 906-9210

CHAIN OF CUSTODY REPORT

Work Order #: M1070 13

CLIENT: BRISTOL	Milhorn man,				INVO	ICE TO):					24 j.			TURN	IAROUNE	REQUE	ST in Busir	ess Da	ys*
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425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/04/01 16:20. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

Environmental Group Leader

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Work Orders included in this report:

M107013



Anchorage, AK 99502-1116

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 07/10/01 09:50

Project Manager: Anne Kranawetter

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMC2202SL	M107013-01	Soil	07/04/01 15:35	07/04/01 16:20
01AMC2203SL	M107013-02	Soil	07/04/01 15:37	07/04/01 16:20

North Creek Analytical - Mobile Lab



Anchorage, AK 99502-1116

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Project Manager: Anne Kranawetter 07/10/01 09:50

Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC2202SL (M107013-01) Soil					Sampled: 07	/04/01 Rece	eived: 07/04/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/09/01	07/09/01	0107035	
Surr: 1-Chlorooctadecane	64.3 %	50-150							
Surr: Triacontane	45.9 %	50-150							S-07
01AMC2203SL (M107013-02) Soil					Sampled: 07	/04/01 Rece	eived: 07/04/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/09/01	07/09/01	0107035	
Surr: 1-Chlorooctadecane	81.9 %	50-150							
Surr: Triacontane	111 %	50-150							

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Project: Amchitka

07/10/01 09:50

BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	n Method	Prepared	Analyzed	Batch	Notes
01AMC2202SL (M107013-01) Soil					Sampled: 07/0	04/01 Rece	eived: 07/04/	01	
Benzene	ND	0.0677	mg/kg dry	50	!1B BTEX/MT	1 07/06/01	07/06/01	0107027	
Toluene	ND	0.271	"	"	"	"	"	"	
Ethylbenzene	ND	0.271	"	"	"	"	"	"	
Xylenes (total)	ND	0.541	"	"	"	"	"	"	
Naphthalene	ND	2.71	"	"	"	"	"	"	
Surr: 4-BFB	82.1 %	50-150							
01AMC2203SL (M107013-02) Soil					Sampled: 07/0	04/01 Rece	eived: 07/04/	01	
Benzene	ND	0.0550	mg/kg dry	50	!1B BTEX/MT	1 07/06/01	07/06/01	0107027	
Toluene	ND	0.220	"	"	"	"	"	"	
Ethylbenzene	ND	0.220	"	"	"	"	"	"	
Xylenes (total)	ND	0.440	"	"	"	"	"	"	
Naphthalene	ND	2.20	"	"	"	"	"	"	
Surr: 4-BFB	80.1 %	50-150							

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Project Manager: Anne Kranawetter 07/10/01 09:50

Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC2202SL (M107013-01) Soil					Sampled: 07/	04/01 Rece	ived: 07/04/	01	
% Solids	85.4	0.0100 %	by Weight	1	Gravimetric	07/06/01	07/07/01	0107028	
01AMC2203SL (M107013-02) Soil					Sampled: 07/	04/01 Rece	ived: 07/04/	01	
% Solids	83.5	0.0100 %	by Weight	1	Gravimetric	07/06/01	07/07/01	0107028	

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported: 07/10/01 09:50

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

North Creek Analytical - Mobile Lab	
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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Surr: Triacontane

Surr: 1-Chlorooctadecane

Blank (0107035-BLK1)			Dranara	d & Analy	zed: 07/0	ιο/01			
Diesel Range Organics	ND	150 mg/kg wet	Ттерагес	a & Anary	/ZCu. 07/C	10/01			
Surr: 1-Chlorooctadecane	18.2	"	23.7		76.8	50-150			
Surr: Triacontane	13.6	"	23.5		57.9	50-150			
LCS (0107035-BS1)			Prepared	d & Analy	zed: 07/0	9/01			
Diesel Range Organics	1300	150 mg/kg wet	1250		104	75-125			
Surr: 1-Chlorooctadecane	18.9	"	23.7		79.7	50-150			
Surr: Triacontane	14.8	"	23.5		63.0	50-150			
LCS Dup (0107035-BSD1)			Prepared	d & Analy	zed: 07/0	9/01			
Diesel Range Organics	1270	150 mg/kg wet	1250		102	75-125	2.33	20	
Surr: 1-Chlorooctadecane	23.0	"	23.7		97.0	50-150			
Surr: Triacontane	15.7	"	23.5		66.8	50-150			
Matrix Spike (0107035-MS1)	Sour	Source: M107012-01		Prepared & Analyzed: 07/09/01					
Diesel Range Organics	1020	150 mg/kg dry	1380	ND	72.0	60-140	•		

26.1

25.9

96.9

108

50-150

50-150

25.3

27.9

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Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

07/10/01 09:50

BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (0107027-BLK1)				Prepared & A	Analyzed: 07/0	6/01
Benzene	ND	0.0250 r	ng/kg wet			
Toluene	ND	0.100	"			
Ethylbenzene	ND	0.100	"			
Xylenes (total)	ND	0.200	"			
Naphthalene	ND	1.00	"			
Surr: 4-BFB	2.37		"	2.50	94.8	50-150
LCS (0107027-BS1)				Prepared & A	Analyzed: 07/0	6/01
Benzene	2.04	0.0250 r	ng/kg wet	2.50	81.6	69-138
Toluene	2.21	0.100	"	2.50	88.4	53-151
Ethylbenzene	2.50	0.100	"	2.50	100	61-141
Xylenes (total)	7.11	0.200	"	7.50	94.8	62-141
Naphthalene	2.76	1.00	"	2.50	110	65-135
Surr: 4-BFB	2.59		"	2.50	104	50-150

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 07/10/01 09:50

Project Manager: Anne Kranawetter

Notes and Definitions

S-07 Surrogate recovery is out of control limits. QA criteria are met when one surrogate is within control limits.

DET Analyte DETECTED

Anchorage, AK 99502-1116

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107013 FINAL 07 10 01
			0950.mdb
			Default Report (not modified)
M107013-01	AK102 (DRO)	Triacontane	S-07
M107013-01	AK102 (DRO)	Triacontane	Exceeds lower control limit